

## Error in FiniteFields.pdf

At the top of page 7, he copies wrong and then completes the example with the wrong information.

The top of page 7 should be as follows. I put the replaced numbers 45, -1305, and 255 in bold italics:

so in other words  $45(-29 \cdot 121) = 45 \pmod{390}$ . So a solution to  $121x = 45 \pmod{390}$  is given by  $x = 45(-29) = -1305$ . Since  $x = 255 \pmod{390}$  we can also use the simpler representative  $x = 255$  to solve the congruence. (Any member of the equivalence class

$$E(-1305) = \{m \text{ in } \mathbb{Z} \mid m = -1305 \pmod{390}\}$$

will solve the problem, and 255 is a member of this class as you can easily check.)